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# Determination of the Optimal Number of Realizations of the Modulating Sequence of the PSK-n signal Necessary for Estimating the Error Probability per Symbol Caused by the ISI Produced by Linear Selective Systems

Khairullin M., Lerner I., Ilrin V.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

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## Abstract

© 2018 IEEE. the problem of estimation of the optimal number of realizations for necessary PSK-n modulating sequence to estimate symbol error rate caused by ISI produced by linear selective systems is considered in the paper. Estimation of the optimal realization number for this case is carried out based on numerical simulation of communicating channel. Dependencies, which allow to estimate value of specific number of optimal of realization per discrete state, are shown in the article, appropriate recommendations are provided.

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## Keywords

capacity, numerical approach, PSK-n-signals, specific number of optimal realization, symbol error rate

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